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Where have you searched so far on this case? **?-12-0 Girole: USPT DWPI BPO Abs	For the transfer of the second
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What is the topic, such as the <u>novelty</u> , motivation, utilit desired <u>focus</u> of this search? Please include the conce registry numbers, definitions, structures, strategies, and topic. Please attach a copy of the abstract and pertinent	pts, synonyms, keywords, acronyms,
Problem See Tires	1_4
Solution 11	4-6
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rate Searcher Picked Up: 8-2 Fulltext Fulltext	Lexis-Nexis
ate Completed: Patent Family	WWW/Internet
earcher Prep/Rev Time: 88 Other	Other

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FILE 'REGISTRY' ENTERED AT 07:24:05 ON 03 AUG 2005
          32506 SEA ABB=ON PLU=ON N/MAC, ELS AND AL/MAC, ELS
L1
           7201 SEA ABB=ON PLU=ON N/MAC, ELS AND IN/MAC, ELS
L2
                           PLU=ON N/MAC, ELS AND GA/MAC, ELS
L3
           9566 SEA ABB=ON
          21991 SEA ABB=ON
                           PLU=ON N/MAC, ELS AND AS/MAC, ELS
L4
L5
         798832 SEA ABB=ON
                           PLU=ON N/MAC, ELS AND P/MAC, ELS
                           PLU=ON L1 AND L2 AND L3 AND L4 AND L5
L6
             14 SEA ABB=ON
     FILE 'CAPLUS' ENTERED AT 07:25:02 ON 03 AUG 2005
L7
             27 SEA ABB=ON PLU=ON L6
     FILE 'REGISTRY' ENTERED AT 07:25:16 ON 03 AUG 2005
             38 SEA ABB=ON PLU=ON L1 AND L2 AND L3 AND L4
rs
                           PLU=ON
                                   L1 AND L2 AND L3 AND L5
L9
             32 SEA ABB=ON
            17 SEA ABB=ON
                                   L1 AND L2 AND L4 AND L5
L10
                           PLU=ON
L11
            22 SEA ABB=ON
                           PLU=ON
                                   L2 AND L3 AND L4 AND L5
           391 SEA ABB=ON
                           PLU=ON L1 AND L2 AND L3
L12
           378 SEA ABB=ON
                           PLU=ON L2 AND L3 AND L4
L13
                           PLU=ON L5 AND L3 AND L4
L14
            54 SEA ABB=ON
                           PLU=ON L1 AND L3 AND L5
            94 SEA ABB=ON
L15
            39 SEA ABB=ON
                           PLU=ON L1 AND L2 AND L5
L16
            31 SEA ABB=ON
L17
                           PLU=ON L1 AND L4 AND L5
                                   L1 AND L4 AND L2
L18
            47 SEA ABB=ON
                           PLU=ON
                                   L5 AND L4 AND L2
L19
            33 SEA ABB=ON
                           PLU=ON
L20
            96 SEA ABB=ON
                           PLU=ON
                                   L5 AND L3 AND L2
L21
            54 SEA ABB=ON
                           PLU=ON
                                   L5 AND L3 AND L4
L22
            16 SEA ABB=ON
                           PLU=ON
                                   (L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR
               L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21) AND (BE
               OR ZN OR MG OR C)/ELS, MAC
L23
            15 SEA ABB=ON PLU=ON L22 NOT O/ELS, MAC
             1 SEA ABB=ON PLU=ON L22 NOT L23
L24
               D IDE
              2 SEA ABB=ON PLU=ON L22 AND NITRIDE
L25
           874 SEA ABB=ON PLU=ON (L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR
L26
               L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21) AND
               NITRIDE
            165 SEA ABB=ON PLU=ON (L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR
L27
               L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21) AND
               PHOSPHIDE
            417 SEA ABB=ON PLU=ON (L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR
L28
               L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21) AND
               ARSENIDE
L29
              O SEA ABB=ON PLU=ON (L8 OR L9 OR L10 OR L11 OR L12 OR L13 OR
               L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR L21) AND
               ALUMINIDE
             2 SEA ABB=ON PLU=ON L23 AND L25
L30
             2 SEA ABB=ON PLU=ON L23 AND L26
L31
L32
             0 SEA ABB=ON
                           PLU=ON L23 AND L27
L33
             O SEA ABB=ON
                           PLU=ON L23 AND L28
                           PLU=ON L27 AND L28
L34
             60 SEA ABB=ON
            60 SEA ABB=ON PLU=ON L26 AND L27 AND L28
L35
L36
          1977 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5) AND (BE OR ZN
               OR MG OR C)/ELS, MAC AND NITRIDE
L37
              6 SEA ABB=ON PLU=ON
                                   (L1 OR L2 OR L3 OR L4 OR L5) AND (BE OR ZN
               OR MG OR C)/ELS, MAC AND ARSENIDE
L38
                                   (L1 OR L2 OR L3 OR L4 OR L5) AND (BE OR ZN
             26 SEA ABB=ON PLU=ON
               OR MG OR C)/ELS, MAC AND PHOSPHIDE
L39
             30 SEA ABB=ON PLU=ON L36 AND L1 AND (L2 OR L3 OR L4 OR L5)
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FILE 'CAPLUS' ENTERED AT 07:35:23 ON 03 AUG 2005 1 SEA ABB=ON PLU=ON L25

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----- 8/3/05 10/812,947 ------
           101 SEA ABB=ON
                           PLU=ON
                                   (L34 OR L35)
L41
                                   (L37 OR L38)
                           PLU=ON
L42
            32 SEA ABB=ON
                          PLU=ON
                                  L39
L43
            13 SEA ABB=ON
     FILE 'REGISTRY' ENTERED AT 07:36:54 ON 03 AUG 2005
          9411 SEA ABB=ON PLU=ON (L1 OR L2 OR L3 OR L4 OR L5) AND NITRIDE
L44
     FILE 'CAPLUS' ENTERED AT 07:37:37 ON 03 AUG 2005
                          PLU=ON JP2005085852/PN
L45
             1 SEA ABB=ON
                          L45 1- IC FTERM: 26 TERMS
               SEL PLU=ON
L46
L47
          4282 SEA ABB=ON
                          PLU=ON L46
          8887 SEA ABB=ON
                          PLU=ON L44 AND (L47 OR H01L?/IC OR 257?/NCL)
L48
          3581 SEA ABB=ON PLU=ON L44 AND BUFFER######
L49
          1414 SEA ABB=ON PLU=ON L44 AND PROTECT#######
L50
           576 SEA ABB=ON PLU=ON L44 AND (INTER OR INTERMEDIATE) (2A) LAYER
L51
          1152 SEA ABB=ON PLU=ON L44 AND (INTERPOS###### OR INTERLAYER#####)
L52
                                  L44 AND THICKNESS######
L53
          4537 SEA ABB=ON PLU=ON
                           PLU=ON
                                  L44 AND ULTRATHIN
L54
           163 SEA ABB=ON
           525 SEA ABB=ON PLU=ON L44 AND NM(2A) (THIN OR THIVK####### OR
L55
               LAYER OR FILM OR COAT####)
L56
          14321 SEA ABB=ON PLU=ON L44 AND NITRIDE/TI
          1325 SEA ABB=ON PLU=ON L44 AND COMPOUND SEMICONDUCT#####
L57
          3026 SEA ABB=ON PLU=ON L44 AND 1(2A)(X OR Y OR C OR D OR U OR V)
L58
           706 SEA ABB=ON PLU=ON L44 AND X(2A)Y
L59
            43 SEA ABB=ON PLU=ON L44 AND U(2A)V
L60
          1520 SEA ABB=ON PLU=ON L44 AND C(2A)D
L61
                          PLU=ON L44 AND (LAYERS/AB OR SECOND(2W)LAYER)
L62
          9071 SEA ABB=ON
          1193 SEA ABB=ON PLU=ON L44 AND ((2ND OR 2 OR TWO OR DOUBLE OR BI
L63
               OR DI) (2W) LAYER)
           235 SEA ABB=ON PLU=ON L44 AND BILAYER#####
L64
          1888 SEA ABB=ON PLU=ON L44 AND MULTILAYER####
L65
           319 SEA ABB=ON PLU=ON L44 AND (MULTI OR MULTIPLE) (2W) LAYER#####
L66
          2885 SEA ABB=ON PLU=ON L44 AND (STACK##### OR SANDWICH##### OR
L67
               LAMINA######)
                                  L44 AND RATIO
L68
          3692 SEA ABB=ON PLU=ON
          1664 SEA ABB=ON PLU=ON L44 AND ENERGIES/AB
L69
           252 SEA ABB=ON PLU=ON L44 AND (BANDGAPS OR BAND GAPS)
L70
           420 SEA ABB=ON PLU=ON L44 AND (WIDER OR HIGHER) (3A) (ENERGY OR
L71
               GAP OR BAND OR BANDGAP)
L72
           601 SEA ABB=ON PLU=ON L44 AND ELECTRON GAS
          1097 SEA ABB=ON PLU=ON L44 AND DENSITIES
L73
                           PLU=ON L44 AND OPERATING
L74
           713 SEA ABB=ON
          7728 SEA ABB=ON PLU=ON L44 AND (CURRENT OR VOLTAGE OR AMP OR
L75
               AMPERAGE OR VOLT)
          2140 SEA ABB=ON PLU=ON (L58 OR L59 OR L60 OR L61) AND (L48 OR L49
L76
               OR L50 OR L51 OR L52 OR L53 OR L54 OR L55 OR L56 OR L57)
          2551 SEA ABB=ON PLU=ON (L58 OR L59 OR L60 OR L61) AND (L62 OR L63
L77
               OR L64 OR L65 OR L66 OR L67 OR L68 OR L69 OR L70 OR L71 OR L72
               OR L73 OR L74 OR L75)
          10986 SEA ABB=ON PLU=ON (L48 OR L49 OR L50 OR L51 OR L52 OR L53 OR
L78
               L54 OR L55 OR L56 OR L57) AND (L62 OR L63 OR L64 OR L65 OR L66
               OR L67 OR L68 OR L69 OR L70 OR L71 OR L72 OR L73 OR L74 OR
               L75)
L79
          1144 SEA ABB=ON PLU=ON L77 AND L78
L80
          2305 SEA ABB=ON PLU=ON L49 AND (L76 OR L77 OR L78)
                          PLU=ON
L81
          1523 SEA ABB=ON
                                   (L62 OR L63 OR L64 OR L65 OR L66) AND L80
                           PLU=ON L79 AND L81
L82
           160 SEA ABB=ON
           160 SEA ABB=ON PLU=ON
                                  (L58 OR L59 OR L60 OR L61) AND (L62 OR L63
L83
               OR L64 OR L65 OR L66) AND L49
L84
           160 SEA ABB=ON PLU=ON L82 AND L83
                          PLU=ON L84 AND CHANNEL
L85
             6 SEA ABB=ON
                          PLU=ON L84 AND DONOR
L86
             8 SEA ABB=ON
```

139 SEA ABB=ON PLU=ON L84 AND SUBSTRATE

L87

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----- 8/3/05 10/812,947 -----
            100 SEA ABB=ON
                            PLU=ON
                                    (L49 OR L50 OR L51 OR L52) AND CHANNEL
L88
                            PLU=ON
                                    (L49 OR L50 OR L51 OR L52) AND DONOR
L89
           106 SEA ABB=ON
                                    (L49 OR L50 OR L51 OR L52) AND SUBSTRATE
           4201 SEA ABB=ON
                            PLU=ON
L90
                                    (L49 OR L50 OR L51 OR L52) AND SUBSTRATE(8A
              7 SEA ABB=ON
                            PLU=ON
L91
                ) DONOR
L92
             21 SEA ABB=ON
                            PLU=ON
                                    (L49 OR L50 OR L51 OR L52) AND SUBSTRATE(8A
                ) CHANNEL
                                    (L49 OR L50 OR L51 OR L52) AND DONOR(8A) CHA
L93
              4 SEA ABB=ON
                            PLU=ON
                NNEL
             17 SEA ABB=ON
                                    (L49 OR L50 OR L51 OR L52) AND DONOR(2A) LAY
L94
                          PLU=ON
                ER
L95
             44 SEA ABB=ON
                          PLU=ON
                                    (L49 OR L50 OR L51 OR L52) AND CHANNEL (2A) L
                AYER
L96
                           PLU=ON
                                   L87 AND L88 AND L89
             O SEA ABB=ON
                                   L90 AND L88 AND L89
                           PLU=ON
L97
             6 SEA ABB=ON
                                    L59 AND L60
L98
                           PLU=ON
             21 SEA ABB=ON
                            PLU=ON
                                    L98 AND L61
L99
             1 SEA ABB=ON
                                    (L51 OR L60 OR L54 OR L55 OR L59 OR L64 OR
L100
           1337 SEA ABB=ON
                           PLU=ON
                L66 OR (L70 OR L71 OR L72) OR L74 OR L84 OR (L87 OR L88 OR
                L89)) AND LAYERS/AB
L101
            634 SEA ABB=ON PLU=ON
                                    (L51 OR L60 OR L54 OR L55 OR L59 OR L64 OR
                L66 OR (L70 OR L71 OR L72) OR L74 OR L84 OR (L87 OR L88 OR
                L89)) AND BUFFER#####(4A)(?LAYER? OR FILM OR ?COAT?)
L102
            109 SEA ABB=ON PLU=ON
                                   (L100 OR L101) AND CHANNEL
                                    (L100 OR L101) AND DONOR
L103
            120 SEA ABB=ON
                            PLU=ON
                                    (L100 OR L101) AND SUBSTRATE
L104
            981 SEA ABB=ON
                            PLU=ON
                                    (L100 OR L101) AND ENERGIES
L105
            54 SEA ABB=ON
                            PLU=ON
                                    (L100 OR L101) AND DENSITIES
L106
            48 SEA ABB=ON
                            PLU=ON
L107
            40 SEA ABB=ON
                            PLU=ON
                                    (L100 OR L101) AND THICKNESSES
                                   L102 AND L103
L108
            14 SEA ABB=ON
                            PLU=ON
                                   L102 AND L104
L109
             60 SEA ABB=ON
                            PLU=ON
                                    L102 AND L105
L110
             3 SEA ABB=ON
                            PLU=ON
             7 SEA ABB=ON
L111
                            PLU=ON
                                    L102 AND L106
L112
             O SEA ABB=ON
                            PLU=ON
                                    L102 AND L107
L113
             3 SEA ABB=ON
                            PLU=ON
                                    L103 AND L107
                                    L103 AND L106
L114
            10 SEA ABB=ON
                            PLU=ON
                                    L103 AND L105
L115
             11 SEA ABB=ON
                            PLU=ON
                            PLU=ON
                                    L103 AND L104
L116
            72 SEA ABB=ON
L117
            287 SEA ABB=ON PLU=ON
                                   (L85 OR L86) OR (L91 OR L92 OR L93 OR L94
                OR L95 OR L96 OR L97 OR L98 OR L99) OR (L105 OR L106 OR L107
                OR L108 OR L109 OR L110 OR L111 OR L112 OR L113 OR L114 OR
                L115 OR L116)
            168 SEA ABB=ON PLU=ON
                                   L117 AND BUFFER######
L118
L119
            206 SEA ABB=ON
                            PLU=ON
                                   L117 AND LAYERS
L120
            96 SEA ABB=ON
                            PLU=ON
                                   L118 AND
                                             L119
            276 SEA ABB=ON
                            PLU=QN
                                    (L118 OR L119 OR L120) AND NITRIDE
L121
                           PLU=ON
                                   L120 AND NITRIDE
L122
            96 SEA ABB=ON
L123
                           PLU=ON
                                   L120 AND COMPOUND SEMICONDUCT#######
             8 SEA ABB=ON
                                    L120 AND STRUCTURE
L124
             46 SEA ABB=ON
                           PLU=ON
                                    L120 AND DEVICE
L125
            39 SEA ABB=ON
                            PLU=ON
L126
            46 SEA ABB=ON
                            PLU=ON
                                    (L121 OR L122) AND L124
                                   L125 AND L126
L127
                            PLU=ON
            24 SEA ABB=ON
L128
            200 SEA ABB=ON
                            PLU=ON L7 OR L40 OR L42 OR L43 OR (L85 OR L86)
                OR (L91 OR L92 OR L93 OR L94 OR L95 OR L96 OR L97 OR L98 OR
                L99) OR L108 OR (L110 OR L111 OR L112 OR L113 OR L114 OR L115)
                OR L123 OR L127
                            PLU=ON L128 AND NITRIDE (3A) (BASED OR COMPOUND OR
L129
             56 SEA ABB=ON
                SEMICONDUCT#######)
L130
            100 SEA ABB=ON
                            PLU=ON
                                    L128 AND BUFFER######
L131
                            PLU=ON
            14 SEA ABB=ON
                                    L128 AND DONOR AND CHANNEL
                            PLU=ON
L132
            29 SEA ABB=ON
                                    L129 AND L130
                            PLU=ON L7 OR L40 OR L43 OR (L85 OR L86) OR L91
L133
            125 SEA ABB=ON
```

		8/3/05 10/812,947
		OR L93 OR L97 OR L99 OR L108 OR (L110 OR L111 OR L112 OR L113 OR L114 OR L115) OR L123 OR L127 OR (L131 OR L132)
L134	27	SEA ABB=ON PLU=ON L133 AND NITRIDE/TI
L135	12	SEA ABB=ON PLU=ON L133 AND BUFFER#####/TI
L136	79	SEA ABB=ON PLU=ON L7 OR L40 OR L43 OR L131 OR L134 OR L135
L137	7	SEA ABB=ON PLU=ON L133 AND THICKNESSES
L138	17	SEA ABB=ON PLU=ON L133 AND ENERGIES
L139	18	SEA ABB=ON PLU=ON L133 AND DENSITIES
L140	91	SEA ABB=ON PLU=ON L6 OR L40 OR L43 OR L131 OR L135 OR (L137
		OR L138 OR L139)
L141	70	SEA ABB=ON PLU=ON L136 AND L140
L142	76	SEA ABB=ON PLU=ON (L133 OR L134 OR L135 OR L136 OR L137 OR
		L138 OR L139 OR L140 OR L141) AND BUFFER####(2A)(LAYER OR
L143	26	FILM) SEA ABB=ON PLU=ON (L133 OR L134 OR L135 OR L136 OR L137 OR
П142	20	L138 OR L139 OR L140 OR L141) AND BUFFER#### (2A) (LAYERS OR
		FILMS)
		D BIB AB HITSTR 1-26
L144	27	SEA ABB=ON PLU=ON L7 NOT L143
DIAA	21	D BIB AB HITSTR 1-27
L145	11	SEA ABB=ON PLU=ON (L40 OR (L42 OR L43)) NOT (L144 OR L143)
L145		SEA ABB=ON PLU=ON L145 AND (LAYERS/AB OR ENERGIES OR
1140	2	THICKNESSES OR DENSITIES OR BUFFER######)
		INICANESSES ON DENSITIES ON BULLERITHTHIN)

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Set	Items	Description
S1	2	CI=(N SS(S)GA SS(S)AL SS(S)IN SS(S)P SS(S)AS SS)
S2	10443	CI=(MG DOP OR C DOP OR ZN DOP OR C DOP)
s3	5	CI=(N SS(S)GA SS(S)AL SS(S)IN SS(S)P SS)
S4	22	CI=(N SS(S)GA SS(S)AL SS(S)IN SS(S)AS SS)
S5	3	CI=(N SS(S)GA SS(S)AL SS(S)P SS(S)AS SS)
S6	62	CI=(N SS(S)GA SS(S)IN SS(S)P SS(S)AS SS)
s7	2	CI=(N SS(S)AL SS(S)IN SS(S)P SS(S)AS SS)
S8	3	S2 AND S3:S7
S9	10443	CI=(MG DOP OR C DOP OR ZN DOP)
S10	90	CI=N AND NITRIDE AND COMPOUND(2W)SEMICONDUCT???????????
S11	2	S9 AND S10
S12	1404	CI=BE DOP
S13	0	S10 AND S12
S14	64	((NITRIDE OR NITRIDES) OR COMPOUND(2W)SEMICONDUCT???????)
AND S12	•	
S15	48	S14 AND (NITRIDE OR NITRIDES OR CI=N SS)
S16	2	S15 AND BUFFER??????
S17	1771	S9 AND (NITRIDE OR NITRIDES OR CI=N SS)
S18	1766	S17 NOT (S8 OR S11 OR S16 OR S1)
S19	47	S18 AND BUFFER??????
S20	280	S18 AND DONOR?????
S21	42	S18 AND CHANNEL????
S22	8	19AND20
S23	5	19AND21
S24	10	20AND21
S25	21	S22:S24

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